



# Sensistor® Sentrac® Hydrogen Leak Detector

Ideal for finding small  
and big leaks.



 **INFICON**

# Fast Hydrogen Leak Detection for Finding All Leaks

A leak can be microscopic. It can also be large or even huge. The problem is that, even if you are searching for small leaks only, leaks can be unexpectedly large and your leak detector should be able to handle them too – without becoming saturated.

The need to find all leaks affects the choice of the perfect leak detector for any given situation. With our renowned hydrogen leak detector Sensistor Sentrac, we make that choice quite a bit easier.

Known for its high sensitivity, its wide dynamic leak range and its short recovery times, Sensistor Sentrac has proven to be a perfect instrument for leak detection in production and maintenance.

## Detect a wide range of leak sizes

Sensistor Sentrac is the perfect fit for industrial applications where it is important to locate leaks quickly and where leak testing in the production



flow must not be impeded by any individual large tracer gas leak. The instrument detects from very small to huge leaks and is the ideal choice for testing products that should be leak tight for fluids.

With its Strix™ sensor, Sentrac not only features even quicker reaction times, but also much faster recovery than its predecessor. In essence, this means that you are now able to find those smaller leaks even easier – without ever compromising your ability to find the larger ones as well. It also means that you will be ready for a small leak right after you have detected a huge leak.

## Low cost of ownership

Sensistor Sentrac uses inexpensive forming gas (5% hydrogen in nitrogen) as tracer gas. In addition, with a longer sensor lifetime, no moving parts and no need for maintenance, the instrument lowers your total cost of ownership making it a great choice.

### ADVANTAGES AT A GLANCE

- ✓ Faster throughput for locating tasks
- ✓ Reduces risk of missing small leaks
- ✓ Finds and withstands the widest range of leak sizes
- ✓ Battery model for true portability
- ✓ Truly intuitive search modes
- ✓ Resilient to high tracer gas backgrounds
- ✓ More effective than soap spray
- ✓ Longer sensor lifetime
- ✓ Low cost of ownership

### TYPICAL MARKETS

Suitable for a broad spectrum of production applications within:

- HVAC/R
- Mobility & Automotive
- Battery
- Industrial Manufacturing

## SENSISTOR SENSOR TECHNOLOGY

Sensistor Sentrac incorporates the proven Sensistor sensor technology developed for using forming gas (5% hydrogen in nitrogen) as tracer gas. These hydrogen gas sensors, which rely on diffusion, are extremely sensitive and selective.

## DETECTOR MODELS

For added flexibility, the Sensistor Sentrac leak detector is available in desktop, portable and panel models.

**1. Stationary desktop model** – for operation with AC power. This instrument has a small footprint for effective leak detection in a variety of production environments.

## INTUITIVE INTERFACE

- Large and bright full color touch display with high resolution
- Possibility to choose between three modes (Locating, Measuring and Combined Mode)
- Password protected user levels

## STRIX SENSOR

- Faster reaction and recovery time, makes it easier to find small leaks
- Extended sensor life, spendless time and money on sensor replacement
- Accurate detection of a variety of leak sizes
- Easy sensor change

## IMPROVED COMMUNICATIONS

- USB-C for recipe back-up, data storage and PC connection
- Probe cable connectors on both detector front and back
- Fieldbus Interface for Profibus, PROFINET, DeviceNet and Ethernet/IP



**2. Battery-powered portable model** – with long operation life per charge, is the perfect choice to easily serve multiple production or repair lines.

**3. Panel model** – has the same functions as the desktop model, but is designed for panel mounting into fully or semi-automatic leak detection systems.



#### STRIX HAND PROBE

- Large display, minimizes operator mistakes
- Light and ergonomic, comfortable operation
- Narrow probe tip for easier access in complicated spaces
- Diffusion sensor (no flow), resilient to high background gas levels, dust and dirt



Reference Leak

AP29ECO

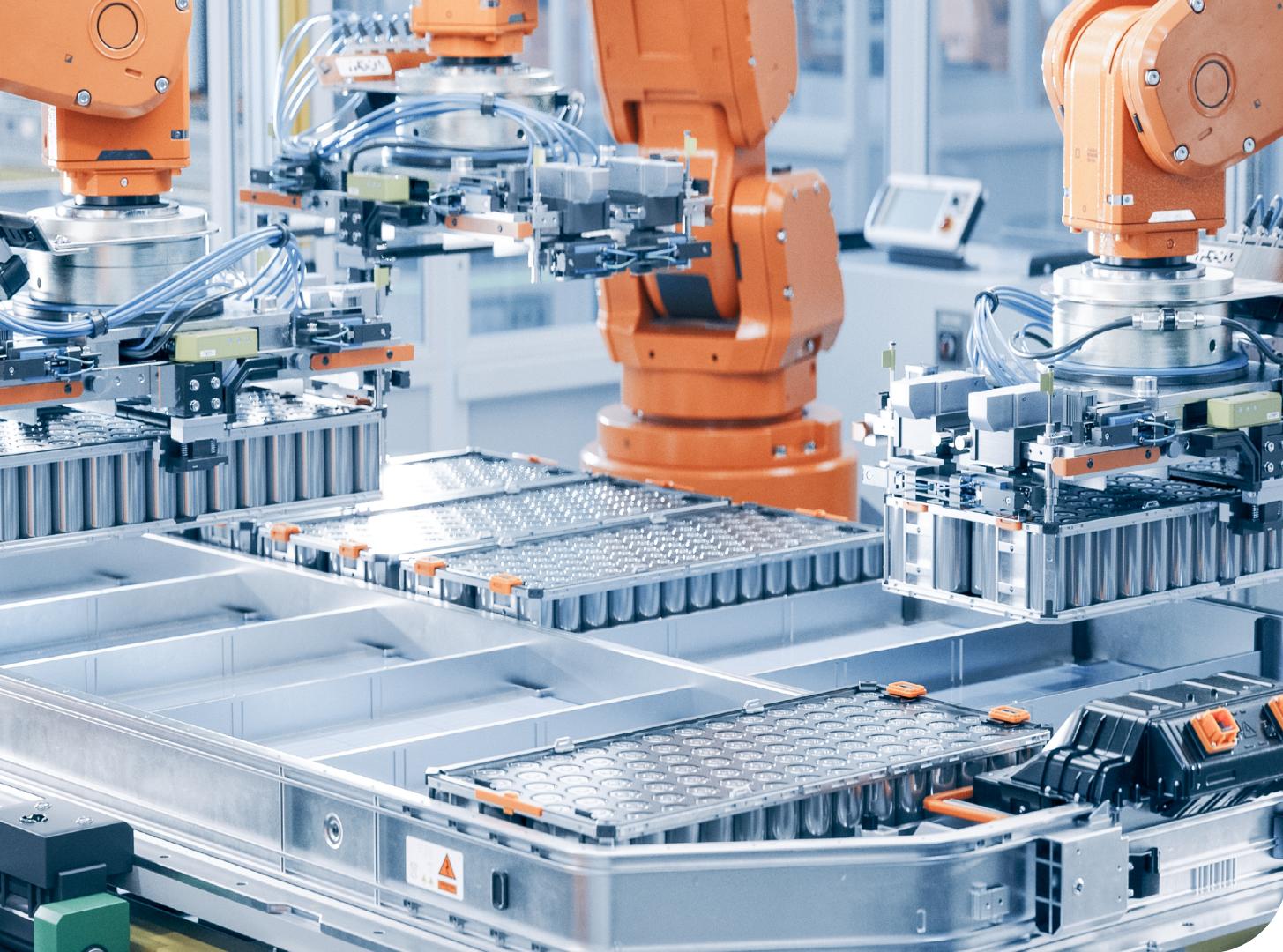


TGF11



#### WIDE RANGE OF ACCESSORIES FOR ALL NEEDS

- Strix Hand Probe, with rigid and flex neck
- R50 Robot Probe
- TGF11 Tracer Gas Filler
- Sensistor ILS500 F Tracer Gas Filler
- AP29ECO Sampling Probe
- Calibration leaks
- Probe cables in three different lengths
- Probe tip filters
- Probe tip protection caps



## Automatic Leak Testing with Hydrogen Tracer Gas

Designed to integrate effortlessly into both automatic and semi-automatic systems, the solution from INFICON significantly reduces manual involvement, ensuring precise, efficient, and repeatable leak detection. At the heart of the system is the Sensistor Sentrac hydrogen sensor technology.

### SENTRAC — AT THE HEART OF THE SYSTEM

- Sentrac Leak Detector - Panel model for seamless integration into an automatic system
- R50 Robot Probe - Designed to be attached to the nose of an industrial robot
- AP29ECO Sampling Probe - Draws an air sample and analyzes it
- ILS500 F Tracer Gas Filler (Optional) - For controlled filling and evacuation of tracer gas



## SENSISTOR® SENTRAC® HYDROGEN LEAK DETECTOR

SPECIFICATIONS	
Min. detectable leak (Locating Mode)	5 x 10 <sup>-7</sup> mbarl/s or cc/s with 5% H <sub>2</sub>
Min. detectable leak (Measuring Mode)	0.5 ppm H <sub>2</sub> ; 5 x 10 <sup>-7</sup> mbarl/s or cc/s with 5% H <sub>2</sub>
Start time	40 sec
Calibration	External calibration leak or calibration gas
In- and outputs	Probe Control Port (Digital 5 in/15 out), 24V (dc) USB-C (RS232, USB-Memory) BM1000 (Expansion Communication Module)
Maintenance	Maintenance free
Power supply	Desktop model: 100-240 V (ac), 50/60 Hz, 67 W max. load Portable model: Internal rechargeable battery* (Li-ion) Panel model: 24 V(dc), 2.2 A
Dimensions (W x H x D)	Desktop model: 305 x 166 x 188 mm (12 x 6.5 x 7.4 in.) Portable model with case: 330 x 200 x 280 mm (12.9 x 7.8 x 11 in.) Panel model: 305 x 155 x 144 mm (12 x 6.1 x 5.7 in.)
Weight (exclusive probe, probe cable and case)	Desktop model: 3.5 kg (7.7 lb.) Portable model: 4.0 kg (8.8 lb.) Panel model: 2.2 kg (4.8 lb.)
Operating time (battery model)	22 hours
Charge time (battery model)	6.5 hours

\*Charged using adapter supplied, 100-240T V, 50/60 Hz, 0.3 A

ORDERING INFORMATION	
<b>PRODUCT</b>	<b>Cat. no.</b>
<b>Leak Detector</b>	
Sensistor Sentrac, desktop model	590-970*
Sensistor Sentrac, portable model	590-971
Sensistor Sentrac, panel model	590-972
<b>Probes</b>	
Strix Hand Probe, rigid neck	590-730*
Strix Flex Hand Probe, flexible neck	590-740
AP29ECO Sampling Probe, 1cc/s	590-036
AP29ECO Sampling Probe, 3cc/s	590-035
<b>C21 Probe cables</b>	
3 m (9.8 ft.)	590-161*
6 m (19.6 ft.)	590-175
9 m (29.5 ft.)	590-165
<b>ACCESSORIES</b>	
Calibration Leaks	See separate data sheet
Sensistor ILS500 F Tracer Gas Filler	See separate data sheet
TGF11 Tracer Gas Filler	See separate data sheet
<b>SPARE PARTS</b>	
Replacement Sensor for Strix Hand Probe	590-290
Replacement Sensor for P60 Hand Probe	590-292

\*Recommended kit



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Due to our continuing program of product improvements, specifications are subject to change without notice.  
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